

10/8/14, 195
L/Cool 5/12/05

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(FILE 'HOME' ENTERED AT 12:59:04 ON 12 MAY 2005)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
13:00:36 ON 12 MAY 2005

L1 0 S (PLATELET ACTIVATING FACTRO)
L2 44226 S (PLATELET ACTIVATING FACTOR)
L3 2547 S L2 AND REVIEW?
L4 2675 S L2 AND PHOSPHOCHOLINE?
L5 130 S L4 AND PHOSPHORYLCHOLINE?
L6 62 S L3 AND PHOSPHATIDYLCHOLINE?
L7 75 S L2 AND LYSOPC?
L8 17 S L7 AND LYSOPAF?
L9 8 DUPLICATE REMOVE L8 (9 DUPLICATES REMOVED)

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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT
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L1	17668 S PHOSPHOCHOLINE?
L2	1530 S L1 AND PHOSPHORYLCHOLINE?
L3	394 S L2 AND PHOSPHATIDYLCHOLINE?
L4	0 S L3 AND LYSOPHOSPHATIDYCHOLINE?
L5	19935 S LYSOPHOSPHATIDYLCHOLINE?
L6	29 S L5 AND L3
L7	24 DUPLICATE REMOVE L6 (5 DUPLICATES REMOVED)
L8	2 S L7 AND PLATELET?
L9	3 S L7 AND PAF?
L10	1 S L9 NOT L8

d 110 1 all

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on STN

AN 92239021 EMBASE

DN 1992239021

TI Stimulation of **phosphatidylcholine** hydrolysis in type II
alveolar epithelial cells.

AU Dubrovin L.C.; Brown L.A.S.

CS Dept. of Pediatrics, Emory University, 2040 Ridgewood Dr., Atlanta, GA
30322, United States

SO American Journal of Physiology - Lung Cellular and Molecular Physiology,
(1992) Vol. 263, No. 1 7-1, pp. L42-L50.

ISSN: 0002-9513 CODEN: APLPE7

CY United States

DT Journal; Article

FS 002 Physiology

030 Pharmacology

037 Drug Literature Index

LA English

SL English

ED Entered STN: 920830

Last Updated on STN: 920830

AB The effects of phorbol 12-myristate 13-acetate (TPA) or ATP on
phosphatidylcholine (PC) hydrolysis were investigated in cultured
type II pneumocytes prelabeled with [3H]choline or 1-O-[3H]octadecyl-sn-
glycero-3-**phosphocholine** ([3H]lyso-**PAF**). In cells
prelabeled with [3H]choline, TPA or ATP stimulated an increase in
[3H]choline, [3H]**phosphocholine**, and [3H]glycerophosphocholine.
The formation of these choline metabolites was associated with a
concomitant loss of [3H]PC but not from disaturated PC or
phosphatidylinositol. In cells prelabeled with [3H]lyso-**PAF**,
the formation of [3H]phosphatidic acid (PA) and then [3H]1,2-DG was
stimulated by TPA or ATP and was associated with a loss of 3H from PC but
not from disaturated PC or phosphatidylinositol. There was a
concentration-dependent formation of [3H]1,2-DG and [3H]PA in response to
ATP. Downregulation of protein kinase C with TPA abolished the
stimulation of PC hydrolysis. In addition to the generation of
metabolites indicative of phospholipase C and/or D activity, [3H]lyso-PC,
a product of phospholipase A2, was also generated in response to TPA.
These findings suggest an important role for PC breakdown in signal
transduction in type II pneumocytes.

CT Medical Descriptors:

*hydrolysis

*phospholipid metabolism

animal cell

article

controlled study

down regulation

drug effect

enzyme activity

enzyme repression

lung alveolus cell type 2

male

nonhuman

priority journal

rat

signal transduction

Drug Descriptors:

*adenosine triphosphate

*lung surfactant

*phorbol 13 acetate 12 myristate

***phosphatidylcholine**: EC, endogenous compound

*phospholipase c: EC, endogenous compound

*phospholipase d: EC, endogenous compound

1 o alkylglycero 3 phosphorylcholine
choline

diacylglycerol

dioleoylphosphatidylcholine

glycerophosphorylcholine

lysophosphatidylcholine

phosphatidic acid

phosphatidylinositol

phospholipase a2: EC, endogenous compound

phosphorylcholine

protein kinase c: EC, endogenous compound

RN (adenosine triphosphate) 15237-44-2, 56-65-5, 987-65-5; (lung surfactant)

99732-49-7; (phorbol 13 acetate 12 myristate) 16561-29-8; (

phosphatidylcholine) 55128-59-1, 8002-43-5; (phospholipase c)

9001-86-9; (phospholipase d) 9001-87-0; (1 o alkylglycero 3

phosphorylcholine) 74430-89-0; (choline) 123-41-1, 13232-47-8,

1927-06-6, 4858-96-2, 62-49-7, 67-48-1; (dioleoylphosphatidylcholine)

10015-85-7; (glycerophosphorylcholine) 4217-84-9, 563-24-6; (

lysophosphatidylcholine) 93794-93-5; (phospholipase a2) 9001-84-7;

(phosphorylcholine) 107-73-3; (protein kinase c) 141436-78-4

CO Gibco (United States); Amersham (United States); Du pont (United States);
Sigma